

★ ★ ★ SECRET ★ ★ ★

NEW ORDNANCE MATERIEL



JANUARY 1945

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DECLASSIFICATION
Authority ND 775004

SECRET

CHITK-AR
FILE COPY

TANKS

87876

TANK, HEAVY, T26E3

TANK, HEAVY, T26E3
(w/Engineer Pontoon)

TANK, HEAVY, T26E4

Shot, Fixed, AP-T, 90-mm, T33

Shot, HVAP-T, 90-mm, T44

Shot, Fixed, HVAP-T, 90-mm, T30E16

Shot, AP-T, 90-mm, T43

TANK, HEAVY, T26E2

TANK, HEAVY, T28

TANK, HEAVY, T29

TANK, HEAVY, T30

TANK, LIGHT, M24

SECRET

TANK, HEAVY, T26E3

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CHARACTERISTICS

Physical Characteristics

Crew.....5
Length.....268 3/4 in.
Weight (gross).....92,000 lb.
Width(over sand shields)..136 15/16 in.(reducible
to 124 in. for shipping)
Height.....109 3/8 in.
Turret ring diameter.....69 in.
Ground clearance.....17 11/16 in.
Tread (center to center of tracks).....110 in.
Ground contact length.....148 7/16 in.
Ground pressure.....12.6 lb./sq. in.

Suspension

Type.....torsion bar

Performance

Sustained speed on level.....25 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....95 in.
Vertical obstacle ability.....46 in.
Fording depth.....48 in.
Turning radius.....30 ft.
Fuel capacity.....186 gal.
Cruising range.....75 miles

Track

Type.....steel
Width.....24 in.
Pitch.....6 in.
Number of shoes per vehicle.....164

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<u>Armor</u>	Inches, Actual	Inches, Basis
<u>Hull</u>		
front, upper	4	6.9
lower	3	6
sides, forward	3	
engine compartment	2	
rear	2	
bottom	$\frac{1}{2}$ and 1	
top	7/8	
<u>Turret</u>		
front	4	
sides and rear	3	
top	1	
Gun Mount Shield		4 $\frac{1}{2}$

Armament

90-mm Gun, M3, with a cal. .30, Machine Gun,
 M1919A4 (flex.) in Combination Gun Mount, T99E2
 in 360° power operated turret
 Elevation.....-10° to +20°
 1 Cal. .50, Machine Gun, H.B., M2, (flex.)..On
 turret for A.A. defense
 1 Cal. .30, Machine Gun, M1919A4, (flex.)....In
 ball mount in bow
 1 Cal. .30, Tripod Mount, M2
 Provision for: 5 Cal. .45, Submachine Guns, M3
 1 Cal. .30, Carbine, M1, and
 Grenade Launcher, M8

Ammunition, Stowage

90-mm.....70 rd.
 Cal. .50.....440 rd.
 Cal. .30.....5,000 rd.
 Cal. .45.....900 rd.
 Grenades.....12

Vision and Fire Control

Periscope, M6.....6

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Periscope, M10F, in Periscope Mount, T113.....1
 (1 Periscope, M4A1, furnished as spare)
 Telescope, M71C, with Instrument, Light, M33,
 in Telescope, Mount, T90.....1
 Azimuth Indicator, M20.....1
 Elevation Quadrant, M9.....1
 Gunner's Quadrant, M1.....1
 Vision blocks (in cupola).....6

Engine

Make and Model.....Ford GAF
 Type.....V8, L.C.
 Number of cylinders.....8
 Maximum governed speed.....2600 r.p.m.
 Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Communications

Radio.....SCR-508, 528 or AN/VRC 3
 Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - 33(Ten of these are T26E1)

AVAILABILITY SCHEDULE, 1945

January	- 50	May	- 300
February	- 109	June	- 440
March	- 215	3rd Quarter	- 1,735
April	- 265	4th Quarter	- 2,069

TOTAL SCHEDULE - 5,216

TANK, HEAVY, T26E3 (W/Engineer Pontoon

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Pontoon for Tank, Heavy, T26E3.

CHARACTERISTICS

Pontoons - Two standard 18-ton pontoons and saddles

Outboard Motors - Two 22-horsepower motors are used to provide steering and aid track propulsion

Advantage - It may be assembled into compact kits which can be transported by two 2½-ton trucks

Modification of the tank - The welding of standard fording equipment and four steel plates to each side of the tank to hold and lock the arms which support the pontoons

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

One Pilot for delivery in February, 1945

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TANK, HEAVY, T26E4

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CHARACTERISTICS

Physical Characteristics

Crew.....5
 Length (over fenders).....243 in.
 (over-all gun forward).....405 3/8 in.
 Weight (gross).....93,000 lb.
 Width (over sand shields) 136 15/16 in.(reducible
 to 124 in. for shipping)
 Height (top of turret).....109 3/8 in.
 Turret ring diameter.....69 in.
 Ground clearance.....17 11/16 in.
 Tread (center to center of tracks).....110 in.
 Ground contact length.....148 7/16 in.
 Ground pressure.....12.9 lb./sq. in.

Performance

Sustained speed on level.....25 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....95 in.
 Vertical obstacle ability.....46 in.
 Fording depth.....48 in.
 Turning radius.....30 ft.
 Fuel capacity.....186 gal.
 Cruising range.....75 miles

Track

Type.....steel
 Width.....24 in.
 Pitch.....6 in.
 Number of shoes per vehicle.....164

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<u>A armor</u>	<u>Inches, Actual</u>	<u>Inches, Basis</u>
<u>Hull</u>		
front, upper	4	6.9
lower	3	6
sides, forward	3	
engine compartment	2	
rear	2	
bottom	$\frac{1}{2}$ and 1	
<u>Turret</u>		
front	4	
sides and rear	3	
top	1	
Gun Mount Shield		$4\frac{1}{2}$
<u>Armament</u>		
90-mm Gun, T15E2, with a cal. .30, Machine Gun, M1919A4 (flex.) in Combination Gun Mount, in power operated turret		
Elevation.....	-10° to +20°	
Traverse.....	360°	
1 Cal. .50, Machine Gun, HB, M2, (flex.).....	On turret for A.A. defense	
1 Cal. .30 Machine Gun, M1919A4, (flex.).....	In ball mount in bow	
1 Cal. .30, Tripod Mount, M2		
Provision for: 5 cal. .45, Submachine Guns, M3		
1 cal. .30, Carbine, M1, and		
Grenade Launcher, M8		
<u>Ammunition, Stowage</u>		
90-mm.....	60 rd. (estimated)	
Cal. .50.....	440 rd.	
Cal. .30.....	5,000 rd.	
Cal. .45.....	900 rd.	
Grenades.....	12	
<u>Vision and Fire Control</u>		
Periscope, M6.....	6	
Periscope, M10 type.....	1	

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Telescope, M71 type.....1
 Azimuth, Indicator, M20.....1
 Elevation Quadrant, M9.....1
 Gunner's Quadrant, M1.....1
 Vision blocks (cupola).....6

Engine

Make and Model.....Ford GAF
 Type.....V8, L.C.
 Number of cylinders.....8
 Maximum governed speed.....2600 r.p.m.
 Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Suspension

Type.....torsion bar

Communications

Radio.....SCR-508, 528 or AN/VRC 3
 Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

100 under manufacture

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Shot, Fixed, HVAP-T, 90-mm, T30E16

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CHARACTERISTICS

Shot, Fixed, HVAP-T, 90-mm, T30E16

Length:	M3 Gun	T15 Gun
Shot	13.20 in.	13.20 in.
Complete round	35.90 in.	48.50 in.
Weight:		
Shot	16.70 lb.	16.70 lb.
Complete round (approx.)	36 lb.	(approx.) 44 lb.
Muzzle velocity	3,350 f/s	3,850 f/s

Shot, HVAP-T, 90-mm, T44 (for 90-mm Gun, T15E2)

Length	
Shot.....	13.20 in.
Cartridge case and closing plug.....	39.59 in.
Weight	
Shot.....	16.70 lb.
Cartridge case (loaded).....	27 lb. (approx.)
Muzzle velocity.....	3,850 f/s

Homogeneous armor plate penetration at 30° obliquity

Range	T30E16 Shot	T30E16 Shot	T44
yd.	M3 Gun	T15 Gun	T15E2 Gun
500	7.6 in.	9.6 in.	9.6 in.
1,000	6.8 in.	8.7 in.	8.7 in.
1,500	6.0 in.	7.7 in.	7.7 in.
2,000	5.4 in.	6.8 in.	6.8 in.

Front glacis plate of PzKpfw V (Panther) Tank can be penetrated up to 450 yd. with the M3 Gun, and 1,500 yd. range with the T15 and T15E2 Guns



Shot, HVAP-T, 90-mm, T30E16
Assembled & Disassembled View

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Shot, T30E16, Limited Procurement Type)
The manufacture of 5,000 rd. was initiated by OCM action 11 January 1945. Probable completion date, September 1945

(Shot, T44, Development Type)
Test rounds being procured and fired

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Shot, Fixed, AP-T, 90-mm, T33

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CHARACTERISTICS

Shot, Fixed, AP-T, 90-mm, T33

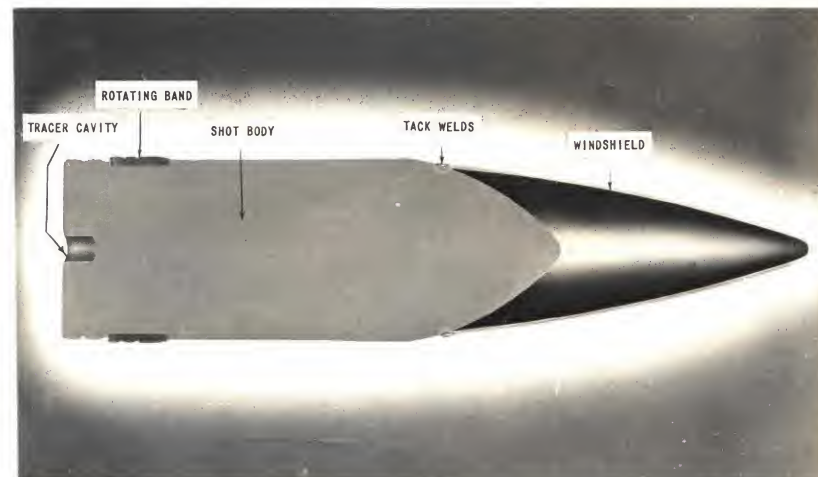
Length:	<u>M3 Gun</u>	<u>T15 Gun</u>
Shot	14.78 in.	14.78 in.
Complete round	37.53 in.	50.08 in.
Weight:		
Shot	24.06 lb.	24.06 lb.
Complete round	43.82 lb.	51 lb. (approx.)
Muzzle velocity	2,800 f/s	3,200 f/s

Shot, AP-T, 90-mm, T43

Length:	<u>T15E2 Gun</u>
Shot	14.78 in.
Cartridge case and closing plug	36.8 in.
Weight:	
Shot	24.06 lb.
Cartridge case (loaded)	27.1 lb.
Muzzle velocity	3,200 f/s

Homogeneous armor plate penetrations at 30° obliquity			
Range	T33 Shot	T33 Shot	T43 Shot
yd.	<u>M3 Gun</u>	<u>T15 Gun</u>	<u>T15E2 Gun</u>
500	4.7 in.	5.2	5.2
1,000	4.6 in.	5.0	5.0
1,500	4.5 in.	4.9	4.9
2,000	4.3 in.	4.8	4.8

Front glacis plate of the PzKpfw V (Panther) Tank can be penetrated up to 1,100 yd. with the M3 Gun and 2,600 yd. range with the T15 and T15E2



Cross Section: Shot, A.P., 90-mm, T33

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Shot, 90-mm, T33, Limited Procurement Type)
The manufacture of 95,000 rd. was initiated by OCM action, 11 January 1945. Probable completion date, July 1945

(Shot, T43, Development Type)
Test rounds being procured and fired

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TANK, HEAVY, T26E2

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CHARACTERISTICS

Physical Characteristics

Crew.....5
Length.....244 in.
Weight (gross).....92,000 lb.
Width (over sand shields).....136 15/16 in.
(reducible to 124 in. for shipping)
Height.....109 3/8 in.
Turret ring diameter.....69 in.
Ground clearance.....17 11/16 in.
Tread (center to center of tracks).....110 in.
Ground contact length.....148 7/16 in.

Ground pressure.....12.6 lb./sq. in.

Performance

Sustained speed on level.....25 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....95 in.
Vertical obstacle ability.....46 in.
Fording depth.....48 in.
Turning radius.....30 ft.
Fuel capacity.....186 gal.
Cruising range.....75 miles

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<u>Armor</u>	Inches, Actual	Inches, Basis
<u>Hull</u>		
Front		
Upper	4	6.9
Lower	3	6
Sides, forward	3	
engine compartment	2	
Rear	2	
Bottom	$\frac{1}{2}$ and 1	
Top	$\frac{7}{8}$	
<u>Turret</u>		
Front	4	
Sides and rear	3	
Top	1	
Gun Mount Shield		$4\frac{1}{2}$

Armament

105-mm Howitzer M4, with a cal. .30, Machine Gun, M1919A4 (flex.) in combination mount in power operated turret
Elevation.....-10° to +35°
Traverse.....360°
1 cal. .50, M.G., HB, M2 (flex.)....On turret for A.A. defense
1 cal. .30, M.G., M1919A4 (flex.), in bow mount
1 cal. .30, Tripod Mount M2
Provision for: 5 cal. .45 Submachine Guns, M3
 1 cal. .30, Carbine, M1, and
 Grenade Launcher, M8

Ammunition, Stowage

105-mm.....72 rd.
Cal. .50.....440 rd.
Cal. .30.....5,000 rd.
Cal. .45.....900 rd.
Grenades.....12

Vision and Fire Control

Periscope, M6.....6
Periscope, M10D, in Periscope Mount T130
 (1 Periscope M4A1 furnished as spare).....1

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Telescope, M76G with Instrument Light, M33 in Telescope Mount, T131.....1
Panoramic Telescope.....1
Elbow Telescope, M62.....1
Elevation Quadrant, M9.....1
Gunner's Quadrant, M1.....1
Vision blocks in cupola.....6

Engine

Make and model.....Ford, GAF
Type.....V8, L.C.
Number of cylinders.....8
Maximum governed speed.....2600 r.p.m.
Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Suspension

Type.....torsion bar

Track

Type.....steel
Width.....24 in.
Pitch.....6 in.
Number of shoes per vehicle.....164

Communications

Radio.....SCR-508, 528 or AN/VRC 3
Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)
Two Pilots Being Manufactured
AVAILABILITY SCHEDULE, 1945
3rd Quarter - 380
4th Quarter - 900

TOTAL SCHEDULE - 1,280

TANK, HEAVY, T28

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Figure to Scale

CHARACTERISTICS

Physical Characteristics

Crew.....	4
Weight.....	179,660 lb.
Length (over hull).....	295 in.
(over gun).....	437 in.
Width (normal operating).....	178 in.
(emergency operating & shipping)....	124 in.
Height.....	94 in.
Ground clearance.....	19 in.
Ground contact length.....	210 in.

Track width.....39 in. (two 19½ in. tracks; outer track and its suspension removable)

Unit ground pressure (in normal operating condition)..10.97 lb./sq. in.

Performance

Maximum speed.....	12 m.p.h.
Vertical obstacle ability.....	24 in.
Fording depth.....	47 in.
Grade ability.....	60 %
Fuel capacity.....	400 gal.

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Armor

Hull	Above Fender	Below Fender
Front	8 in. at 0°	8 in. at 0°
Sides	2½ in. at 57½°	6 in. at 0°
Rear	2 in. at 9°	2 in. at 0°
Top - 1½ in.		
Floor - 1 in.		

Armament

105-mm Gun T5E1 in hull front

Elevation.....-5° to +19½°

Traverse.....10°R and 10°L

1 cal. .50, M.G., HB, M2 (flex.) on top deck

Provision for:

4 cal. .45, Submachine Guns, M3

1 cal. .30, Carbine, M1, with

Grenade Launcher, M8

Ammunition, Stowage

105-mm.....65 rd.

Cal. .50.....660 rd.

Cal. .45.....720 rd.

Grenades.....12

Vision and Sighting Equipment

Periscope, M6.....2

Periscope, M10E3 (Periscope, M8A1 as spare).....1

Telescope, T139 or T140.....1

Panoramic Telescope, T141.....1

Elevation Quadrant, M9.....1

Gunner's Quadrant, M1.....1

Vision Cupolas.....2

Engine

Make and model.....Ford, GAF

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Type.....V8, L.C.

Fuel type.....80 octane

Net horsepower.....470 at 2,800 r.p.m.

Transmission

Type.....torqmatic

Running Gear...

Suspension, type.....Horizontal volute spring

Track, type.....Rubber backed, steel

Number of shoes/track.....102

Pitch.....6 in.

Width.....19½ in.

Communications

Radio.....SCR 508, 528 or AN/VRC3

Interphone stations.....4

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

FIVE PILOTS BEING MANUFACTURED

Delivery in June - July 1945 (estimated)

SECRET

TANK, HEAVY, T29

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CHARACTERISTICS

Physical Characteristics

Crew.....6
 Weight (loaded, combat).....128,000 lb.
 Horsepower to weight ratio.....12.7 hp/ton
 Unit ground pressure.....10.3 lb./sq. in.
 Ring turret diameter (inside).....80 in.

Performance

Maximum tractive effort.....1700 lb./ton
 Maximum speed.....25 m.p.h.
 Maximum trench crossing ability 100 in.

Maximum vertical.....46 in.
 Maximum fording depth.....72 in.
 Maximum grade ability.....60 %

Armor

Hull	Above Fender	Below Fender
Front	4 in. at 54°	2 3/4 in. at 58°
Sides	2 & 3 in. at 0°	2 & 3 in. at 0°
Rear	2 in. at 9°	3/4 in. at 62°
Top(actual)		
	1 1/2 in.	
Floor(actual)		
	1/2 and 1 in.	

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Turret
 Front 7 in. at 0°, mantlet 8 in.
 Sides 7 in. to 5 in. at 0°
 Rear 4 in. at 0°
 Top (actual) 1½ in.

Armament

105-mm Gun, T5E1, in combination with two cal..50
 Machine Guns, HB, M2, in a power operated turret
 Elevation.....-10° to +15°
 Traverse.....360°
 One cal. .30, M.G., M1919A4. (flex.) in Bow Mount
 One cal. .50, M.G., HB, M2, (flex.) in turret
 hatch on A.A. Mount
 Provision for: Six cal. .45, Submachine Guns, M3

Ammunition, Stowage

105-mm.....70 rd.
 Cal. .50.....2,420 rd.
 Cal. .30.....2,500 rd.
 Cal. .45.....1,080 rd.
 Grenades.....12

Vision and Sighting Equipment

Periscope, Type M6.....10
 Telescope, Type M70E1.....1
 Elevation Quadrant, M9.....1
 Azimuth Indicator.....1

Engine

Make and model.....Ford GAC
 Type.....V12
 Fuel type.....Gasoline (80 octane)
 Fuel capacity.....300 gal.

Net horsepower.....690 at 2,800 r.p.m.(estimated)
 Net max. torque....1460 at 1900 r.p.m. (estimated)
 Cooling system.....Liquid
 Oil capacity.....48 qt.

Power Train

Final drive gear ratio.....105 to 19
 Sprocket pitch diameter.....28.89
 Number of teeth.....15
 Transmission, type-Torque converter cross drive
 Number of speeds, forward.....2
 reverse.....1
 Steering mechanism, type...Cross Drive (hydraulic)
 Steering ratio.....Variable
 Brakes, type.....Electric Eddy Current (external)
 operation.....Hand lever, electrical

Running Gear

Suspension, type.....Individual - Torsion Bar
 Number of wheels.....16
 Wheel size.....26 in. Dual
 Track, type.....Fabricated (T80E1)
 Number of shoes/track.....102
 Pitch.....6 in.
 Width.....(28 in. (w/end connectors))

Communications

Radio.....SCR-508, AN/VRC 3
 Number of Interphone Outlets.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

Two Pilots - 1st Pilot March, 1945

2nd Pilot April, 1945

TANK, HEAVY, T30

SECRET



CHARACTERISTICS

Physical Characteristics

Crew.....6
 Weight (combat loaded).....128,000 lb.
 Horsepower to weight ratio.....12.7 h.p./ton
 Unit ground pressure.....10.3 lb./sq. in.
 Ring turret diameter (inside).....80 in.

Performance

Maximum tractive effort.....1,700 lb./ton
 Maximum speed.....25 m.p.h.

Maximum trench crossing ability.....100 in.
 Maximum vertical wall.....46 in.
 Maximum fording depth.....72 in.
 Maximum grade ability.....60 %

Armor

Hull	Above Fender	Below Fender
Front	4 in. at 54°	2 3/4 in. at 58°
Sides	2 & 3 in. at 0°	2 & 3 in. at 0°
Rear	2 in. at 9°	3/4 in. at 62°
Top(actual)		
	1 1/2 in.	
Floor(actual)		
	1/2 and 1 in.	

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Turret

Front 7 in. at 0°, mantlet 8 in.
Sides 7 in. to 5 in. at 0°
Rear 4 in. at 0°
Top(actual) 1½ in.

Armament

155-mm Gun in combination with two cal. .50,
Machine Guns, HB, M2, in a power operated turret
Elevation.....-10° to +15°
Traverse.....360°
One cal. .30, M.G., M1919A4 (flex.) in Bow Mount
One cal. .50, M.G., HB, M2 (flex.) in turret hatch
on A.A. Mount
Provision for: Six cal. .45, Submachine Guns, M3

Ammunition, Stowage

155-mm.....40 rd.
Cal. .50.....2,420 rd.
Cal. .30.....2,500 rd.
Cal. .45.....1,080 rd.
Grenades.....12

Vision and Sighting Equipment

Periscope, Type M6.....10
Telescope, Type M70E1.....1
Elevation Quadrant, M9.....1
Azimuth Indicator.....1

Engine

Make and Model.....Ford GAC
Type.....V12
Fuel type.....Gasoline (80 octane)
Net horsepower....690 at 2,800 r.p.m. (estimated)
Net max. torque.1,460 at 1,900 r.p.m. (estimated)

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Power Train

Final drive gear ratio.....105 to 19
Sprocket pitch diameter.....28.89
Number of teeth.....15
Transmission, type..Torque converter cross drive
Number of speeds, forward.....2
reverse.....1
Steering mechanism, type..Cross drive (hydraulic)
Steering ratio.....Variable
Brakes, type.....Electric Eddy Current (external)
operation.....Hand lever, electrical

Running Gear

Suspension, type.....Individual -Torsion Bar
Number of wheels.....16
Wheel size.....26 in. Dual
Track, type.....Fabricated (T80E1)
Number of shoes/track.....102
Pitch.....6 in.
Width (w/end connectors)28 in.

Communications

Radio.....SCR-508, AN/VRC 3
Number of Interphone Outlets.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

Two Pilots under manufacture

SECRET

TANK, LIGHT, M24

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CHARACTERISTICS

Physical Characteristics

Crew.....4
 Weight.....39,500 lb.
 Length, hull.....195 in.
 over-all with armament.....221 in.
 Width (outside of tracks).....112 in.
 Height (top of cupola).....97 3/4 in.
 (top of A.A. Mount).....108 in.
 Turret ring diameter (inside).....60 in.
 Ground clearance.....17 in.
 Tread (center to center of tracks).....96 in.
 Ground contact length.....112 in.
 Ground pressure.....11.0 lb./sq. in.

Performance

Sustained speed on level.....35 m.p.h.
 3% grade.....17 m.p.h.
 10% grade.....11 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....78 in.
 Vertical obstacle ability.....36 in.
 Fording depth.....40 in.
 Turning radius.....20 ft.
 Fuel capacity.....110 gal.
 Cruising range, highway.....175 miles
 cross country.....100 miles

Armor

Hull	Inches, Actual	Inches, Basis
front, upper	1	2 1/2
lower	1	1 1/2

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sides	1	1
rear, lower	3/4	1 1/4
upper	3/4	3/4
top	1/2	
bottom (first 36 in.)	1/2	
(remainder)	3/8	
Turret		
front and sides	1	1 1/4
rear	1	1
roof	1/2	
Gun Shield		
upper	1 1/2	2
lower	1 1/2	2 1/4

Armament

75-mm Gun, M6, and 1 cal. .30, Machine Gun,
 M1919A4 (flexible) in Combination Gun Mount, M64,
 in turret
 Elevation.....-10° to +15°
 Traverse.....360°
 1 cal. .50, Machine Gun, HB, M2, (flex.).....On
 turret, anti-aircraft
 1 cal. .30, Machine Gun, M1919A4, (flex.).....In
 bow mount
 1 cal. .30, Tripod Mount, M2
 Provision for: 4 cal. .45, Submachine Guns, M3
 or 3 cal. .45, Submachine Guns, M3,
 and 1 cal. .30, Carbine, M1, with
 Grenade Launcher, M8

Ammunition, Stowage

75-mm.....48 rd.
 Cal. .50.....440 rd.
 Cal. .30.....3,750 rd.
 Cal. .45.....720 rd.
 Grenades (Smoke, 2, Fragmentation, 6).....8

SECRET

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TANK, LIGHT, M24

Vision and Fire Control

Periscope, M6.....3
 Telescope, M71G, with Instrument Light, M33 (or
 Telescope, M70K, with Instrument Light, M39C) in
 Telescope Mount, M65, with headrest.....1
 Periscope, M10C, in Periscope Mount, M66.....1
 (1 Periscope, M4A1 furnished as spare)
 Azimuth Indicator, M21.....1
 Elevation Quadrant, M9, with Instrument Light,
 M30.....1
 Gunner's Quadrant, M1.....1
 Vision blocks (in cupola).....6

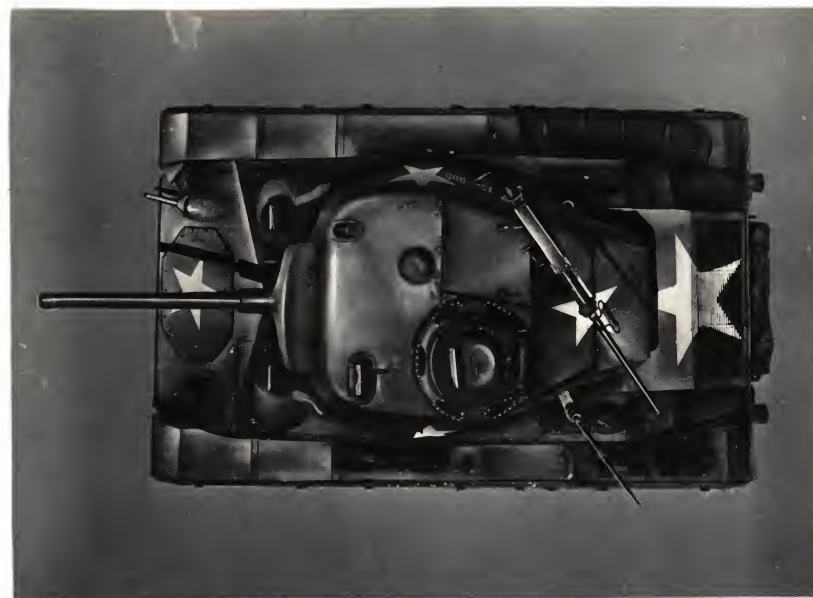
Engine

Make and Model.....Cadillac, Series 42
 Type.....Dual, V-8
 Number of cylinders.....16
 Cycle.....4
 Fuel (gasoline).....80 octane
 Maximum governed speed.....4,000 r.p.m.
 Net horsepower.....220 at 3,400 r.p.m.

Communications

Radio.....SCR-508, 528 or AN/VRC3
 Command Tank.....SCR -506
 Interphone Stations.....5

SECRET



Tank, Light, M24 - Top View

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 1,504

AVAILABILITY SCHEDULE, 1945

January	- 486	May	- 410
February	- 420	June	- 383
March	- 450	3rd Quarter	- 645
April	- 420	4th Quarter	- 455

TOTAL SCHEDULE - 5,173

SECRET

SECRET

GUN MOTOR CARRIAGES

CARRIAGE, MOTOR, 155-MM HOWITZER, T64E1

Carrier, Cargo, T22E1

CARRIAGE, MOTOR, 155-MM GUN, T83

Carrier, Cargo, T30

DECLASSIFIED
Authority NND 775004

SECRET

CARRIAGE, MOTOR, 155-MM HOWITZER, T64E1

SECRET



CHARACTERISTICS

Physical Characteristics

Crew.....	5
Weight (combat loaded).....	41,500 lb.
(less crew, stowage & fuel)....	38,500 lb.
Length (over-all).....	230 in.
Width (outside of track).....	112 in.
Height (over-all).....	94 in.
Ground clearance (effective).....	17 in.
Track width.....	16 in.
Ground contact length.....	124 in.
Unit ground pressure.....	10.5 lb./sq. in.

Performance

Maximum speed.....	35 m.p.h.
Maximum grade ability.....	60 %
Trench crossing ability.....	96 in.
Vertical obstacle ability.....	40 in.
Fording depth.....	42 in.
Fuel capacity.....	115 gal.
Cruising range, highway.....	175 miles
cross country.....	100 miles

Armor

	<u>Above Fender</u>	<u>Below Fender</u>
Front	$\frac{1}{2}$ in. at 60°	$\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 12°	$\frac{1}{2}$ in. at 12°

SECRET

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Authority: NND 715004

Rear 3/8 in. at 0° 3/8 in. at 0°
 Top - 3/8 in.
 Floor - 1/2 & 3/8 in.

Armament

155-mm Howitzer, M1
 Traverse.....20 1/2° R, 17° L
 Elevation.....-5° to 45°
 Provision for:
 Gun, Submachine, cal. .45, M3.....1
 Carbine, Cal. .30, M1.....1

Ammunition, Stowage

Shell, H.E., 155-mm, M102 or M102B1.....18 rd.
 Cal. .30.....480 rd.
 Cal. .45 (30 rd. clips).....570 rd.
 Grenades, Hand.....12

Vision and Fire Control

Periscope, M6.....2 (2 spares)
 Telescope, T116E2 or M69D.....1
 Panoramic Telescope, M12 on.....1
 Mount, Telescope, T58E2.....1

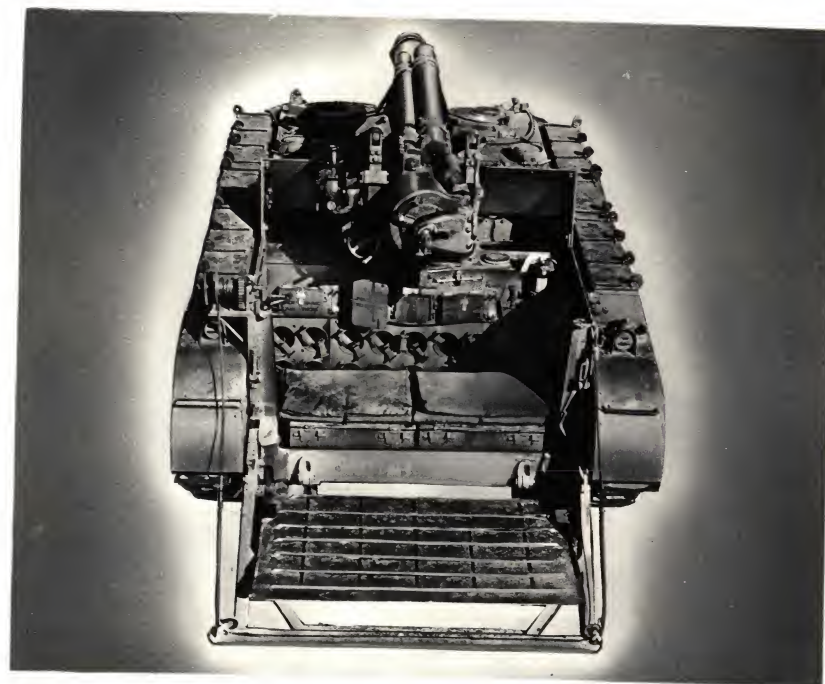
Engine

Make and Model.....Cadillac, Series 43
 Type.....Dual, V8
 Net horsepower.....220 at 3,400 r.p.m.

Suspension

Type.....Individual wheel - torsion bar
 Track, type...Steel, rubber bushed, center guide
 width.....16 in.
 pitch.....5 1/2 in.
 number of shoes per vehicle.....176

SECRET



Carriage, Motor, 155-mm Howitzer, T64E1.

PRESENT STATUS AND AVAILABILITY SCHEDULE *(Limited Procurement Type)*

AVAILABLE, 1944 - ONE PILOT

AVAILABILITY SCHEDULE, 1945

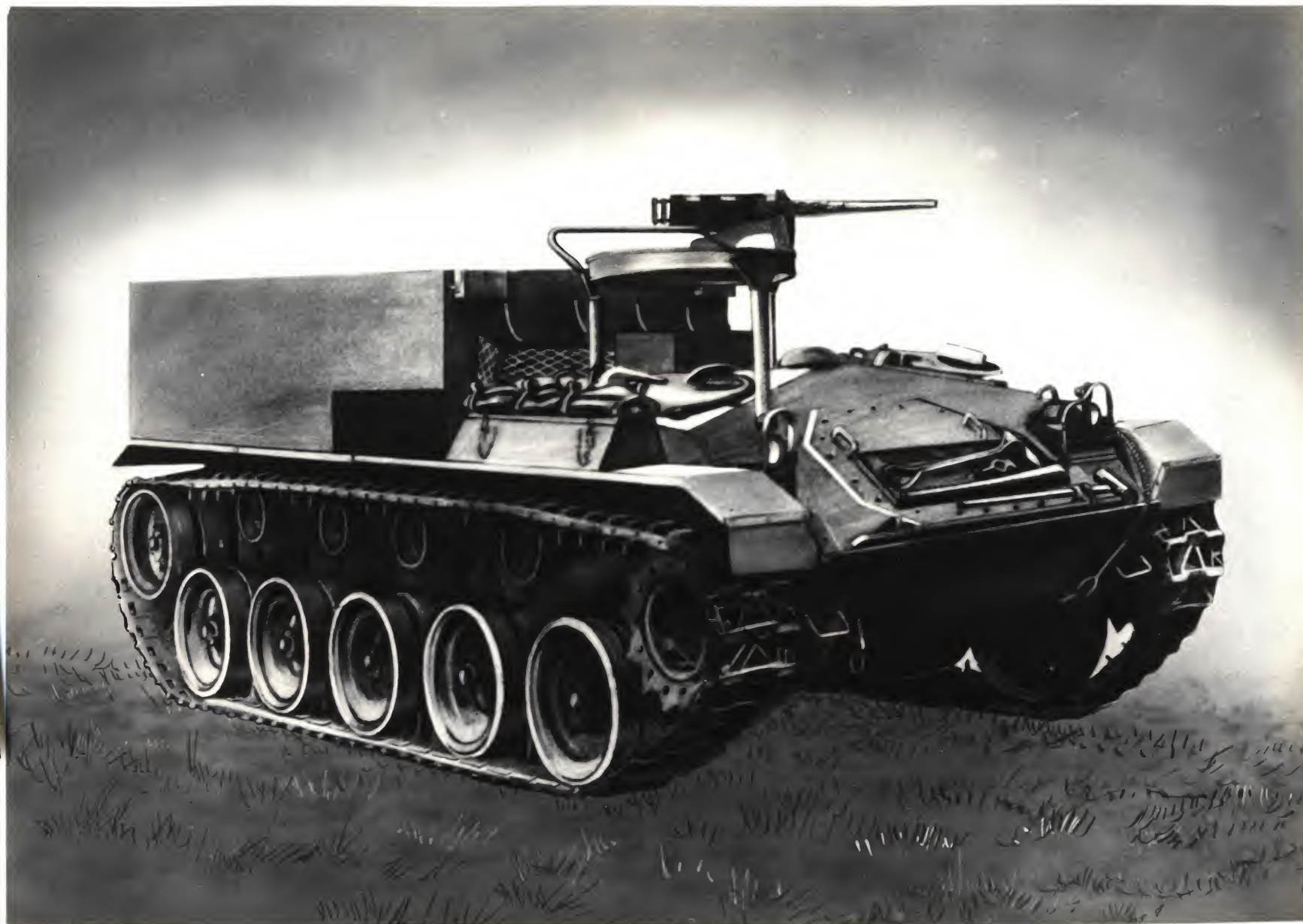
3rd Quarter - 145

4th Quarter - 355

TOTAL SCHEDULE - 500

SECRET

AUTHORITY AND 775004
 DECLASSIFIED



DECLASSIFIED
Authority NND 775004

CHARACTERISTICS

Physical Characteristics

Crew.....5
 Weight (combat loaded).....40,500 lb.
 Length (over-all).....215 in.
 Width (outside of track).....112 in.
 Height (over-all).....94 in.
 Ground clearance (effective).....17 in.
 Track width.....16 in.
 Ground contact length.....124 in.
 Unit ground pressure.....10.2 lb./sq. in.

Performance

Maximum speed.....35 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....96 in.
 Vertical obstacle ability.....40 in.
 Fording depth.....42 in.
 Fuel capacity.....115 gal.
 Cruising range, highway.....175 miles
 cross country.....100 miles

Armor

	Above Fender	Below Fender
Front	$\frac{1}{2}$ in. at 60°	$\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 12°	$\frac{1}{2}$ in. at 12°
Rear	3/8 in. at 0°	3/8 in. at 0°
Top - 3/8 in.		
Floor - $\frac{1}{2}$ & 3/8 in.		

SECRET

Armament

One cal. .50, Machine Gun, HB, M2, (flex.), on Ring Mount, M49C or concentric ring mount located over assistant driver's hatch

Provisions for stowage of crew weapons

Ammunition, Stowage

Shell, H.E., 155-mm, M102 or M102B1.....75 rd.
 Cal. .50.....600 rd.
 Grenades, Hand.....12

Vision

Periscope, M6.....2 (2 spares)

Engine

Make and model.....Cadillac, Series 43
 Type.....Dual, V8
 Net horsepower.....220 at 3,400 r.p.m.

Suspension

Type.....Individual wheel - torsion bar
 Track, type....Steel, rubber bushed, center guide
 width.....16 in.
 pitch.....5 $\frac{1}{2}$ in.
 number of shoes per vehicle.....176

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABILITY SCHEDULE, 1945

3rd Quarter - 56
 4th Quarter - 194
TOTAL SCHEDULE - 250

Authority MND 715004
 DECLASSIFIED

CARRIAGE, MOTOR, 155-MM GUN, T83

SECRET

CHARACTERISTICS

Physical Characteristics

Crew.....	8
Weight (combat loaded).....	72,000 lb.
Length, hull.....	254 in.
over-all with armament.....	320 in.
Width, outside of track.....	124 in.
Height, center line of bore.....	102 in.
Ground clearance.....	19 in.
Track width.....	23 in.
Ground contact length.....	168 in.
Unit ground pressure.....	9.3 lb./sq. in.



DECLASSIFIED
Authority NND 715004

Performance

Sustained speed.....24 m.p.h.
Grade ability.....60 %
Trench crossing ability.....98 in.
Vertical obstacle ability.....36 in.
Fording ability.....42 in.
Minimum turning circle diameter.....65 ft.
Cruising range.....100 miles

Armor

	Above Fender	Below Fender
Front	$\frac{1}{2}$ in. at 60°	2 $\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 0°	1 in. at 0°
Rear	$\frac{1}{2}$ in. at 0°	$\frac{1}{2}$ in. at 0°
Gun Mount Shield		
$\frac{1}{2}$ in. at 45°		
Floor - $\frac{1}{2}$ and 1 in.		

Armament

155-mm Gun, M1A1
Traverse: 18°L and 18°R
Elevation: -5° to +55°
Provision for 7 Carbine, cal. .30
1 Rifle, cal. .30, M1903
Grenade Launcher, M1

Ammunition, Stowage

Shell, H.E., 155-mm, M101 or M101B1.....25 rd.
Cal. .30.....960 rd.
Rifle Grenades.....10
Hand Grenades.....12

Vision and Sighting Equipment

Periscope: Vision: Type, M6 Quantity 2 (2 spares)
Telescope: Panoramic M12 in Mount, Telescope, T122

SECRET

Telescope M69E1 or T117E6 in Mount, Telescope,
T122 and T123

Light, Instrument, M33

Light, Instrument, M31

Gunner's Quadrant, M1

Engine

Make.....Continental, Model R975C4
Type.....Radial
Fuel, type.....Gasoline (80 octane)
Capacity.....200 gal. (approx.)
Net horsepower.....395 at 2600 r.p.m.

Power Train

Number of speeds.....5 forward, 1 reverse

Suspension

Type.....Horizontal volute spring
Track, type.....Steel, single pin, center guide
width.....23 in.
pitch.....6 in.
number of shoes per vehicle.....176

Communications

Radio SCR 610 or 628

Number of Interphone Outlets - 4

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

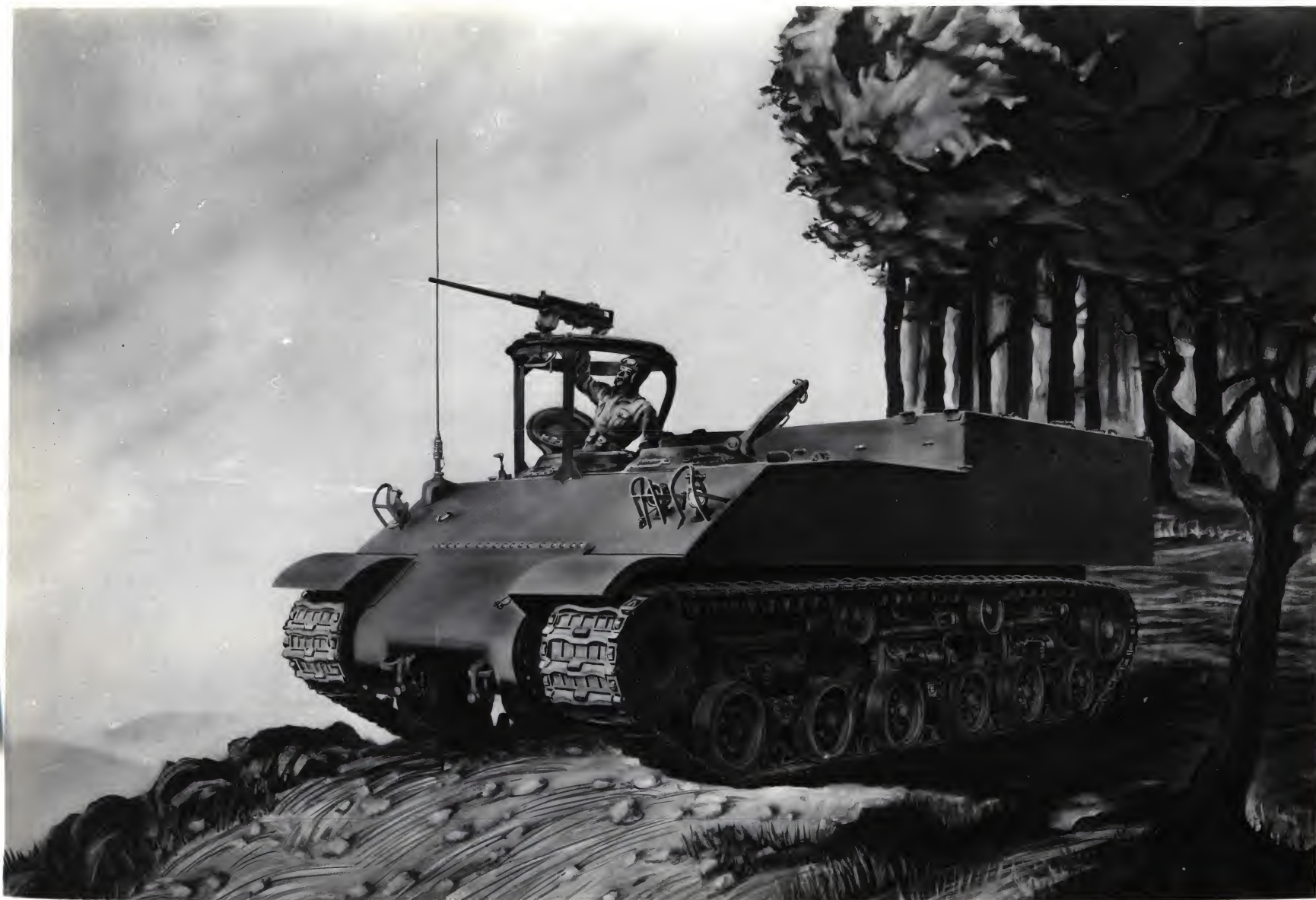
AVAILABLE, 1944 - THREE PILOTS

AVAILABILITY SCHEDULE, 1945

March - 35	June - 51
April - 50	3rd Quarter - 153
May - 51	4th Quarter - 260

TOTAL SCHEDULE - 600

SECRET



DECLASSIFICATION
Authority ND 75004

CHARACTERISTICS

Physical Characteristics

Crew.....4
 Weight (combat loaded).....72,000 lb.
 Length, hull.....240 in.
 Width, outside of track.....124 in.
 Ground clearance.....19 in.
 Track width.....23 in.
 Ground contact length.....168 in.
 Unit ground pressure....9.3 lb./sq. in.

Performance

Sustained speed.....24 m.p.h.
 Grade ability.....60%
 Trench crossing ability.....98 in.
 Vertical obstacle ability.....36 in.
 Fording ability.....42 in.
 Minimum turning circle diameter.....65 ft.
 Cruising range.....100 miles

Armor

	<u>Above Fender</u>	<u>Below Fender</u>
Front	$\frac{1}{2}$ in. at 60°	2 $\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 0°	1 in. at 0°
Rear	$\frac{1}{2}$ in. at 0°	$\frac{1}{2}$ in. at 0°
Floor($\frac{1}{2}$ and 1 in.)		

Armament

One cal. .50, Machine Gun, HB, M2, (flex.) on
 Ring Mount, M49C or concentric ring mount lo-
 cated over assistant driver's hatch
 Provisions for stowage of crew weapons

SECRET

Ammunition, Stowage

Shell, H.E., 155-mm, M101 or M101B1.....100 rd.
 Cal. .50.....600 rd.
 Hand Grenades.....12

Vision Equipment

Standard vision cupolas provided for driver and
 assistant driver
 Periscope: Vision: Type--M6 Quantity - 2
 (2 spares)

Engine

Make.....Continental, Model R975C4
 Type.....Radial
 Fuel, type.....Gasoline (80 octane)
 Net horsepower.....395 at 2,600 r.p.m.

Power Train

Number of speeds.....5 forward, 1 reverse

Suspension

Type.....Horizontal volute spring
 Track, type.....Steel, single pin, center guide
 Width.....23 in.
 Pitch.....6 in.
 Number of shoes per vehicle.....176

Communication

Radio.....SCR 610 or 628
 Number of Interphone Outlets.....4

Carrier, Cargo, T30



Carrier, Cargo, T30.

SECRET



New Type Track Suspension

PRESENT STATUS AND AVAILABILITY SCHEDULE

AVAILABLE, 1944 - THREE PILOTS

AVAILABILITY SCHEDULE, 1945

No Requirements

SECRET

SECRET

ARTILLERY

LITTLE DAVID

Bomb, T1

MORTAR, 155-MM, T25-PHASE I

Shell, H.E., 155-mm, T26E1

GUN, ANTITANK, 90-MM, T8, ON
CARRIAGE, GUN, 90-MM, T5E2

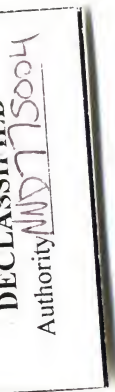
Tractor, Light, T39

SECRET

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CHARACTERISTICS

Weight of complete unit in firing position.....85.5
tons or 171,000 lb.

Base load, complete for travel.....80.8
tons or 161,600 lb.

Tube load, complete for travel.....72.08
tons or 144,175 lb.

Tube

Length.....6.55 calibers

Rifling.....Uniform, R.H., 1 turn in 60 calibers

Recoil.....25.25 in.

Rated maximum pressure, p.s.i.....10,000

<u>Box Assembly Dimensions</u>	<u>Tube Assembly Dimensions</u>
Height.....10 ft.	Width, max. 5 ft. 9 in.
Width.....11 ft.	Length.....27 ft.
Length.....18 ft. 6 in.	Height.....10 ft. 8 in.



Tube Assembly in traveling position

SECRET



Bomb, T1

CHARACTERISTICS

Weight

bomb, T1, as fired.....1.92 tons or 3,850 lb.*

Bursting charge, T1.....75 ton or 1,550 lb.*

Propelling charge.....210 lb.*

Fuzes.....Inertia type, base detonating, non-delay
vs. long delay

Ignition.....Two Mk. XV, Mod. 1, electric primers
and approx. 8 lb. black powder

Muzzle velocity.....1,250 f/s

Approximate range

Bomb, T1, at 45° elevation.....10,000 yd.

*Figures are approximate

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

AVAILABLE, 1944 - FOUR PILOTS

SECRET

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 11/15/04

MORTAR, 155-MM, T25-PHASE I

SECRET



DECLASSIFICATION
Authority AND 775004

SECRET

DECLASSIFIED
Authority ND 775004

Weight of 155-mm Mortar, T25.....	171 lb.
Length of bore.....	10.67 cal.
Length (muzzle to rear end of base plate).....	75.775 in.
Weight of tube.....	100 3/4 lb.
Weight of base cap.....	63 3/4 lb.
Weight of firing mechanism, T17.....	6 1/2 lb.

Elevation.....	45° to 80°
Maximum traverse (45° elevation).....	137 mils or 68.5 mils left, 68.5 right
Maximum traverse (80° elevation).....	165 mils or 82.5 mils left, 82.5 right
Shock absorber and collar.....	96 lb.
Traversing mechanism.....	45 lb.
Bipod (and elevating screw).....	71 lb.
Sight, M4.....	1 1/2 lb.

Center ring.....	54 lb.
Intermediate ring.....	71 lb.
Outer ring.....	68 lb.
Over-all diameter.....	37 in.
Flotation area.....	1,075 sq. in.



Shell, H.E., 155-mm, T26E1

CHARACTERISTICS

Caliber.....	155-mm
Model of mortar.....	T25
Bursting charge and weight..	Cast TNT, 18.38 lb. (approx.)
Fuze.....	Fuze, Rocket, P.D., M4A1 or M4A2
Primer.....	Mk 11A4
Cartridge (Ignition).....	T2
Propelling charge and weight..	M2 smokeless pwdr. of .015 SP. gr. in bag increments of approx. 1550 gr. each zone
Complete round weight.....	63.0 lb.
Muzzle velocity (Charge 3).....	515 f/s
Maximum range (Charge 3).....	2,505 yd.
Rated maximum pressure, p.s.i.....	3,000

(Limited Procurement Type)

AVAILABLE, 1944 - 109

AVAILABILITY SCHEDULE, 1945

January	-	6
February	-	10
March	-	50
April	-	49

TOTAL SCHEDULE = 224

SECRET

GUN. ANTITANK, 90-MM, T8. ON CARRIAGE, GUN, 90-MM, T5E2



SECRET

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Authority NND 775004

FIRE CONTROL EQUIPMENT

INDIRECT FIRE

SECRET



Gun and carriage in traveling position

(Limited Procurement Type)

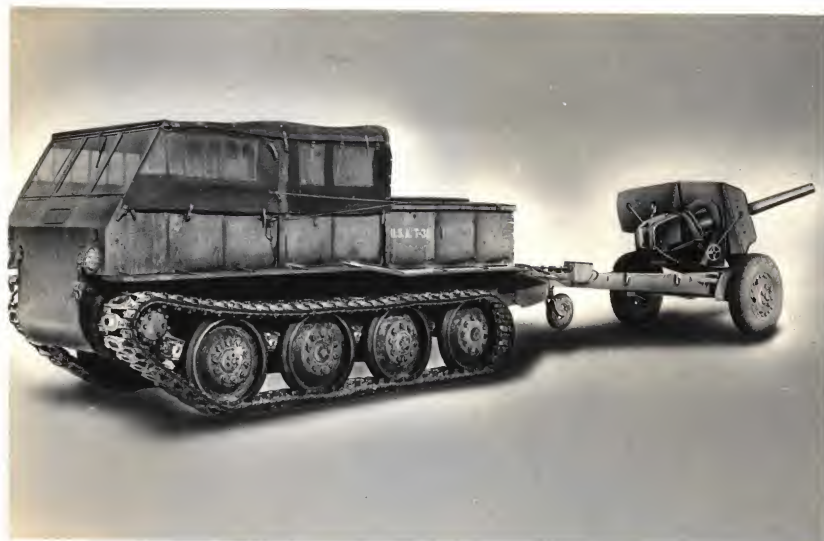
AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

January	-	15	May	-	100
February	-	60	June	-	100
March	-	100	3rd Quarter	-	167
April	-	100			

TOTAL SCHEDULE - 642

Tractor, Light, T39



CHARACTERISTICS

Physical Characteristics

Crew.....9
 Weight (gross).....18,000 lb.
 Length.....178 in.
 Width.....93 in.
 Height.....88 in.
 Ground clearance.....20 in.
 Tread (center to center of tracks).....74 in.
 Track width.....19 in.
 Ground contact length.....105 in.
 Ground pressure.....4.5 lb./sq. in.

SECRET

Performance

Sustained speed on level.....40 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....35 in.
 Vertical obstacle ability.....20 in.
 Fording depth.....48 in.
 Fuel capacity.....60 gal.
 Cruising range.....125 miles

Armament

One cal. .50 Machine Gun, HB, M2, Flexible, on
 AA Mount

Ammunition, Stowage

90-mm.....30 rd.(approx.)
 .50 cal.....800 rd.

Engine

Make.....Cadillac
 Type.....V8, L.C.
 Maximum governed speed.....3,200 r.p.m.
 Net horsepower.....110 at 3,200 r.p.m.

Transmission

Type.....Hydramatic

Suspension

Type.....Torsion Bar

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

Six Pilots authorized with deliveries in
 January and February, 1945

SECRET

SECRET

SMALL ARMS

FUZE, HAND GRENADE, T2E1

LAUNCHER, ROCKET, 2.36-INCH, M9E2

CARBINE, CAL. .30, M2

GUN, MACHINE, CALIBER .50, T25E3, AIRCRAFT, BASIC

RIFLE, 75-MM, T21

Shell, H.E., 75-mm, T38

Shell, H.E.A.T., 75-mm, T39

Shell, Smoke (WP), 75-mm, T40

RIFLE, 57-MM, T15E13

Shell, H.E., 57-mm, T22

Shell, H.E.A.T., 57-mm, T20E2

Shell, Smoke, (WP), 57-mm, T23

SECRET

DECLASSIFIED
Authority: NND 775004

SECRET

FUZE, HAND GRENADE, T2E1



SECRET

CHARACTERISTICS

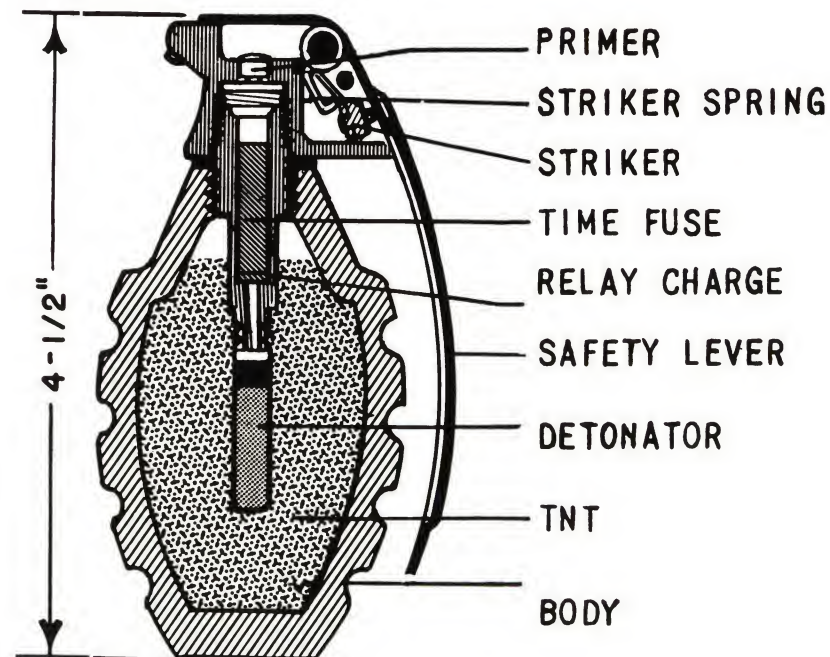
Type.....Detonating (noiseless, smokeless and sparkless while burning)

Delay.....1.4 to 5 seconds

Safety.....Added safety through new lever design and easier pull of safety pin

Identification.....New lever design and T lug on body, marking on lever

Note: The T2E1 Fuze is used for any purpose for which present M6A3 Fuzes are employed. It lends itself well for use in booby traps or in detonating TNT charges.



Fuze, Hand Grenade, T2E1, assembled with Grenade, Hand, Fragmentation, Mk II (TNT)

SECRET



PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABILITY SCHEDULE, 1945

January - 500,000

February - 1,000,000

March - 1,500,000

April - 1,500,000

May - 1,000,000

TOTAL SCHEDULE - 6,000,000

SECRET

LAUNCHER, ROCKET, 2.36-INCH, M9E2

SECRET



DECLASSIFIED
Authority ND 775004

SECRET

CHARACTERISTICS

Weight.....10.5 lb.
 (Aluminum - 6 lb., other materials - 4.5 lb.)
 Length, over-all.....61 in.
 Weight of projectile.....3.39 lb.
 Range.....600 yd.
 Muzzle velocity.....265 f/s
 Type of fire.....Direct
 Rate of fire.....10 r.p.m. (approximate)
 Ammunition.....H.E.A.T. & WP



SECRET



*Bazooka team firing the 2.36 inch Rocket
 at a tank from a concealed position*

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

January - 200

February - 300

TOTAL SCHEDULE - 500

SECRET

CARBINE, CAL. .30, M2

SECRET



DECLASSIFIED
Authority: NND 775004

SECRET

CHARACTERISTICS

Operation. Semi-automatic or full automatic, at will
Weight
 with magazine (unloaded).....5.20 lb.
 with magazine (loaded) and sling.....5.80 lb.
 magazine......17 lb.
 magazine (loaded) with 15 cartridges......59 lb.
Magazine capacity.....15 rd.
Length, over-all.....36 in.
Length of barrel.....18 in.
Rifling, R.H., one turn in.....20 in.
Grooves.....4
Sight Radius.....21.46 in.
Trigger pull.....4 - 6 lb.

MODIFIED AND REDESIGNED COMPONENTS

Operating Slide: cam cut
Trigger housing: selector spring groove and sear
 trip lever clearance cuts
Stock: clearance cuts for selector and sear trip
 lever
Sear: built up shoulder
Hammer: sear trip clearance cut
Magazine Catch: projection for additional magazine
 support
Crank Pin: straddle mill cut for selector and crank
 for sear trip lever

ADDITIONAL COMPONENTS

Sear trip lever
Selector
Selector spring
Sear trip
Sear trip spring and plunger

All other components other than those listed
above are interchangeable with the M1 Carbine.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

*Production is being changed over from the
M1A1 to the M2 type as rapidly as practi-
cal without loss of total production. A
tentative schedule of the M2 production is
as follows:*

AVAILABILITY SCHEDULE, 1945

January	- 20,000	April	- 86,000
February	- 40,000	May	- 95,000
March	- 62,000		

SECRET

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Authority: NND 775004

SECRET

GUN, MACHINE, CALIBER .50, T25E3, AIRCRAFT, BASIC



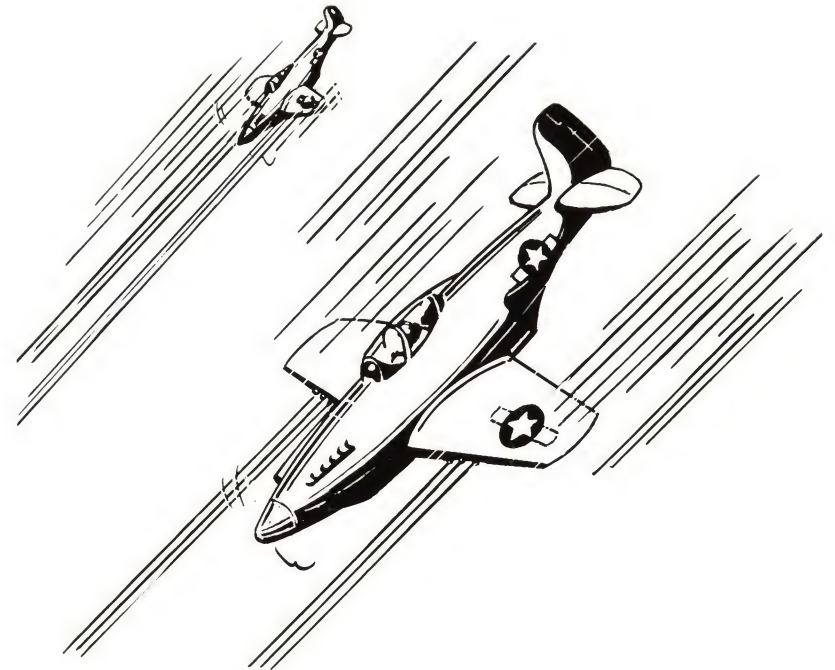
DECLASSIFIED
Authority NND 775004

CHARACTERISTICS

Rate of fire (rigid mount).....1,200 r.p.m.
 Length, over-all.....58.25 in.
 Weight.....62 lb.
 Belt pull capacity.....35 lb., minimum



SECRET



PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - TWELVE PILOTS

AVAILABILITY SCHEDULE, 1945

April - 1,000

May - 1,000

TOTAL SCHEDULE - 2,000

SECRET

DECLASSIFIED
 Authority: NND 775004

RIFLE, 75-MM, T21

SECRET



DECLASSIFIED
Authority NND 715004

SECRET

CHARACTERISTICS

Weight (gun w/o sights or tripod).....105 lb.
 Length, over-all.....81.78 in.
 Recoil mechanism.....None, recoilless
 Muzzle velocity.....1,000 f/s
 Type of breechblock....Spring loaded hammer, float-
 ing firing pin, trigger operated sear
 Rifling.. 1 turn in 22 calibers-uniform, right hand
 Mount.....Mount, Tripod, caliber .30, M1917A1
 On Mount, } Elevation.....+27°
 Tripod, cal. } Depression.....-65°
 .30, M1917A1 } Traverse.....360°

ACCESSORIES

1. Mount, Tripod, M1917A1
2. Cover, T39 (Muzzle and Breech)

OPTICAL FIRE CONTROL EQUIPMENT

Telescope, T126E2
 Quadrant, Elevation, T13E1

SECRET



Cartridge, H.E., 75-mm, T38

AMMUNITION

Shell	H.E. 75-mm, T38	H.E.A.T., 75-mm, T39	Smoke (WP), 75-mm T40
Weight			
*shell & fuze	14.4 lb.	13.1 lb.	15.1 lb.
Fuze type	P.D.	B.D.	P.D.
Primer	M28A2	M28A2	M28A2
Cart. Case	Steel, T7	Steel, T7	Steel, T7
Complete			
round weight	21.85 lb.	20.44 lb.	22.61 lb.
Penetration: 4 to 4.5 in. of homogeneous armor plate at all ranges and at all obliquities from 0° to 60° (H.E.A.T.)			

*All projectiles have pre-engraved rotating bands

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

February	- 80	May	- 250
March	- 100	June	- 250
April	- 250	3rd Quarter	- 70
		4th Quarter	-

TOTAL SCHEDULE - 1,000

SECRET

Weight (gun complete for mounting on tripod. 40.25 lb.
Length, over-all.....60 in.
Recoil mechanism.....None, recoilless
Muzzle velocity.....1,200 f/s
Maximum range.....4,400 yd.
with Shell, HE, 57-mm, T22
Type of breechblock.....interrupted lug
Firing mechanism.....Spring loaded hammer, float-
ing firing pin, trigger operated sear
Rifling....1 turn in 30 calibers-uniform, right hand
Mount....Bipod, T3E1 forms rest for shoulder firing
or bipod for prone firing used in conjunc-
tion with extendable front Handle, T3E1
Alternate Mount....Mount, Tripod, Cal. .30, M1917A1
Iron Sights.....Sight, Front, T91 and Mount, Sight,
T120E1, provide iron sights when
telescope is not used
Telescopic Sight....Direct Fire Telescope, T130E2
On Mount, Elevation.....+65°
Tripod, cal. Depression.....-27°
.30, M1917A1 Traverse.....360°
Height - in firing position (on Mount, Tripod, cal.
.30, M1917A1)..0° elevation 34 1/4 in. to top of
breechblock handle
Width-in firing position..12 in.(gun and sight
mounting bracket only)



PRESENT STATUS AND AVAILABILITY SCHEDULE

AVAILABLE, 1944 - FIVE PILOTS

June - 300

3rd Quarter - 1,500

TOTAL SCHEDULE - 2,000

Rifle, 57-mm, T15E13

SECRET



Firing in prone position

RIFLE ACCESSORIES

1. Cover, T27E2
2. Cover, T38 (Muzzle and Breech)
3. Bag, Canvas, Rocket, M6 (for transporting ammunition)
4. Packboard, Plywood & straps w/buckles, quick release & attachments, cargo
5. Mount, Tripod, cal. .30, M1917A1

AMMUNITION

Shell Type	Shell* & Fuze Weight	Fuze Type
H.E., 57-mm, T22	2.75 lb.	P.D.
H.E.A.T., 57-mm, T20E2	2.75 lb.	P.I.
Smoke (WP), 57-mm, T23	2.75 lb.	P.D.



Cartridge H.E., 57-mm, T22

Penetration: This shell has penetrated up to 3 in. of homogeneous armor plate at 20° obliquity (H.E.A.T.)

*All projectiles have pre-engraved rotating bands

<u>Primer</u>	<u>Cartridge Case</u>	<u>Complete Rd. Weight</u>	
		<u>w/o</u>	<u>w/container</u>
Perc., T37	Steel, T1	5.30	7.12 lb.
Perc., T37	Steel, T1	5.30	7.12 lb.
Perc., T37	Steel, T1	5.30	7.12 lb.

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ROCKETS

LAUNCHER, ROCKET, MULTIPLE, 4.5-INCH, T66

ROCKET, H.E., 4.5-INCH, T38E3

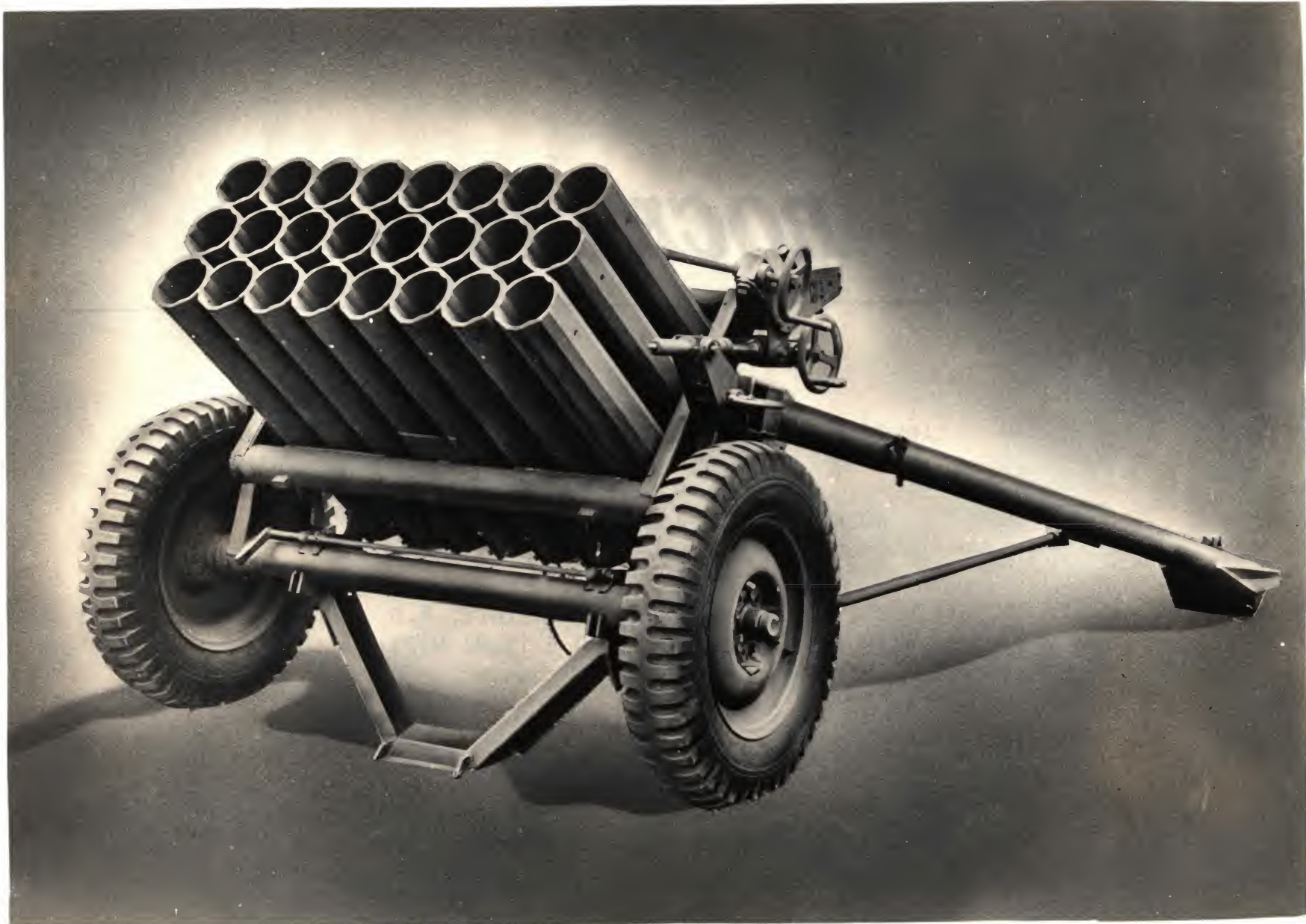
ROCKET, H.E., 4.5-INCH, T38E7, WITH FUZE, P.D., M81
WITH LAUNCHER, ROCKET, 4.5-INCH, M12A1

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LAUNCHER, ROCKET, MULTIPLE, 4.5-INCH, T66

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CHARACTERISTICS

Weight, total.....1050 lb.(estimated)
Rails or tubes:
 Length.....36 in.
 Number and arrangement.....24 tubes in three
 8-tube banks
 Composition.....Aluminum
 Mounting.....2-wheel split-trail carriage
 for ground firing
Elevation.....0° to 45°
Traverse.....20° (10° R, 10° L)
Rate of fire.....Ripple fire at 0.5 sec. interval
Firing mechanism..Selective single round or ripple
 fire electric firing mechanism
Fire control equipment.....M4 Mortar Sight
 and Quadrant



Rear view of Launcher, Rocket, Multiple, 4.5-inch, T66.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - SIX PILOTS

AVAILABILITY SCHEDULE, 1945

January - 60

February - 40

TOTAL SCHEDULE - 100

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Motor Assembly:

Diameter outside.....4.5 in.
 Length.....20 in.
 Weight (less propellant).....12 lb.
 Material.....WD 8630 or WD 4130 seamless steel tubing

Propellant...4.75 lb. solvent extruded double base powder, 7/8 in. O.D. by 9/32 in. I.D. by 5 1/4 in. or 5 1/2 in. long

Type of loading.....Twenty 5 1/2 in. sticks and ten 5 1/4 in. sticks strung on a ten-wire cage

Shell assembly

Caliber.....4.5 in.
 Length.....9.4 in.
 Filler.....TNT
 Weight, filler.....5.2 lb.
 Weight, total.....17 lb.

Type of ignition...Bayonet type igniter consisting of black powder and electric squib in ethyl cellulose envelope anchored to cage holding propellant. Ignition system contact is made by contact rings instead of plug type ignition

Launchers.....T62, T63E1, T66, T72

Packaging.....probably similar to M8

SECRET



Complete round and disassembled view of Rocket, H.E., 4.5-inch, T38E3.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABILITY SCHEDULE, 1945

January	- 15,000	May	- 150,000
February	- 60,000	June	- 175,000
March	- 90,000	3rd Quarter	- 600,000
April	- 140,000	4th Quarter	- 592,000

TOTAL SCHEDULE - 1,822,000

SECRET

ROCKET, H.E., 4.5-INCH, T38E7, WITH FUZE,
P.D.. M81 WITH LAUNCHER. ROCKET, 4.5-INCH, M12A1

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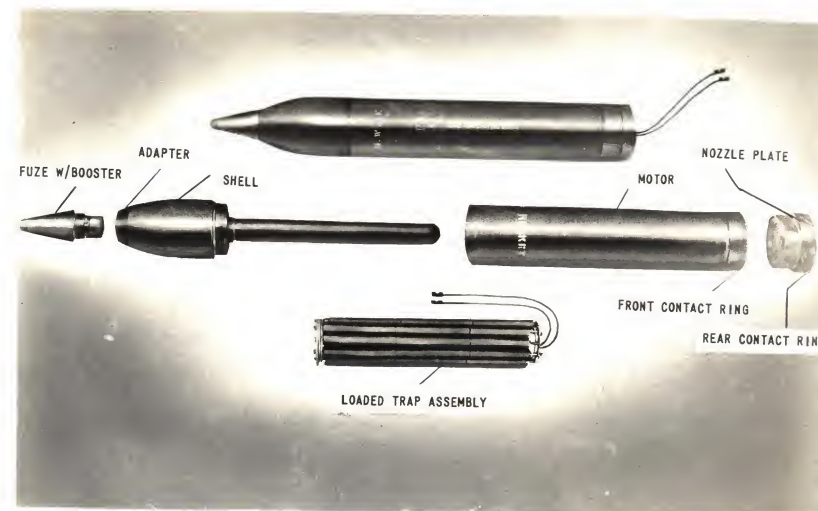
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CHARACTERISTICS

Range.....5,000 yd.
Dispersion.....9 mils
Velocity.....830 f/s
Service temperature limits.....-20° to +120° F
Burning time:
 AT -20°F.....0.34 sec.
 AT +120°F.....0.1 sec.
Type of stabilization....Rotational obtained by use
 of nozzle plate with 8
 angled jets
Length (w/o fuze).....28.7 in.
Weight of round (loaded w/o fuze).....40.5 lb.
Fuze.....P.D. M48A2 with Booster, M21A1
Motor Assembly
 Diameter outside.....4.5 in.
 Length.....20 in.
 Weight (less propellant).....12 lb.
 Material.....WD 8630 or WD 4130 seamless steel
 tubing
Propellant..4.75 lb. solvent extruded double base
 powder, 7/8 in. O.D. by 9/32 in.
 I.D. by 5 1/4 in. or 5 1/2 in. long
Type of loading.....Twenty 5 1/2 in. sticks and ten
 5 1/4 in. sticks strung on a
 ten-wire cage

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*Complete round and disassembled view of Rocket,
H.E., 4.5-inch, T38E7, with Fuze, P.D., M81.*

Snell assembly

Caliber.....4.5 in.
Length.....9.4 in.
Filler.....TNT
Weight, filler.....5.2 lb.
Weight, total.....17 lb.
Type of ignition...Bayonet type igniter consisting
 of black powder and electric
 squib in ethyl cellulose envel-
 ope anchored to cage holding
 propellant. Squib wires brought
 out through closure disc in the
 nozzle plate and connected to
 electrical firing mechanism
Packaging.....probably similar to M8

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ROCKET, 4.5-INCH, M12A1

SECRET

CHARACTERISTICS

Weight, total.....22 lb.
 Rails or tubes:
 Length.....48 in.
 Number and arrangement.....Single tube
 Composition.....Plastic
 Mounting.....Tripod
 Elevation.....Fixed
 Traverse.....By moving tripod
 Rate of fire.....Discarded after firing one round
 Firing mechanism...Battery packed with launcher
 furnished electric current. Ten
 cap exploder may be used for
 salvo release of several rock-
 ets at the same time
 Fire control equipment...Folding peep sight and
 front stud sight

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - 9,000

(Consists of M8A3 & T22 Rockets)

AVAILABILITY SCHEDULE, 1945

February	- 5,000	May	- 5,000
March	- 5,000	June	- 5,000
April	- 5,000	3rd Quarter	- 15,000
		4th Quarter	- 4,000

TOTAL SCHEDULE - 53,000



Rocket, H.E., 4.5-inch, T38E7, with Fuze, P.D.,
 M181, with Launcher, Rocket, 4.5-inch, M12A1.

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MINES

MINE, AT, H.E., LIGHT, M7

MINE, AT, HE, HEAVY, M6

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MINE, AT, H.E., LIGHT, M7

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CHARACTERISTICS

Weight.....4 1/4 lb.
 Weight, crated.....7 lb.
 Volume, crated.....12 cu. ft.
 Explosive charge.....3 1/2 lb. tetrytol
 Over-all height.....2 1/2 in.
 Over-all length.....7 in.
 Over-all width.....4 1/2 in.
 Mine body material.....Sheet metal (terne plate)
 Carrying handle.....Wire loop and plug, attachable to activator well
 Activator well.....End of mine, suitable for all standard thread Corps of Engineers firing devices
 Dimensions of pressure plate.....3 in. x 4 5/8 in.
 Operating load.....190 $\pm$ 50 lb.
 Operating temperature.....-40°F to +160°F
 Deliberate emplacement.....1 in. (wrap in cloth bag furnished)
 Hasty emplacement.....Surface of ground
 Maximum stream emplacement.....2 ft. of water
 Blast resistance to adjacent mines.....5 ft.
 Blast resistance to 3 bangalores (27 lb. HE)...5 ft. with hasty emplacement



Mine, AT, H.F., Light, M7, used in reduction of pill box.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 918,000

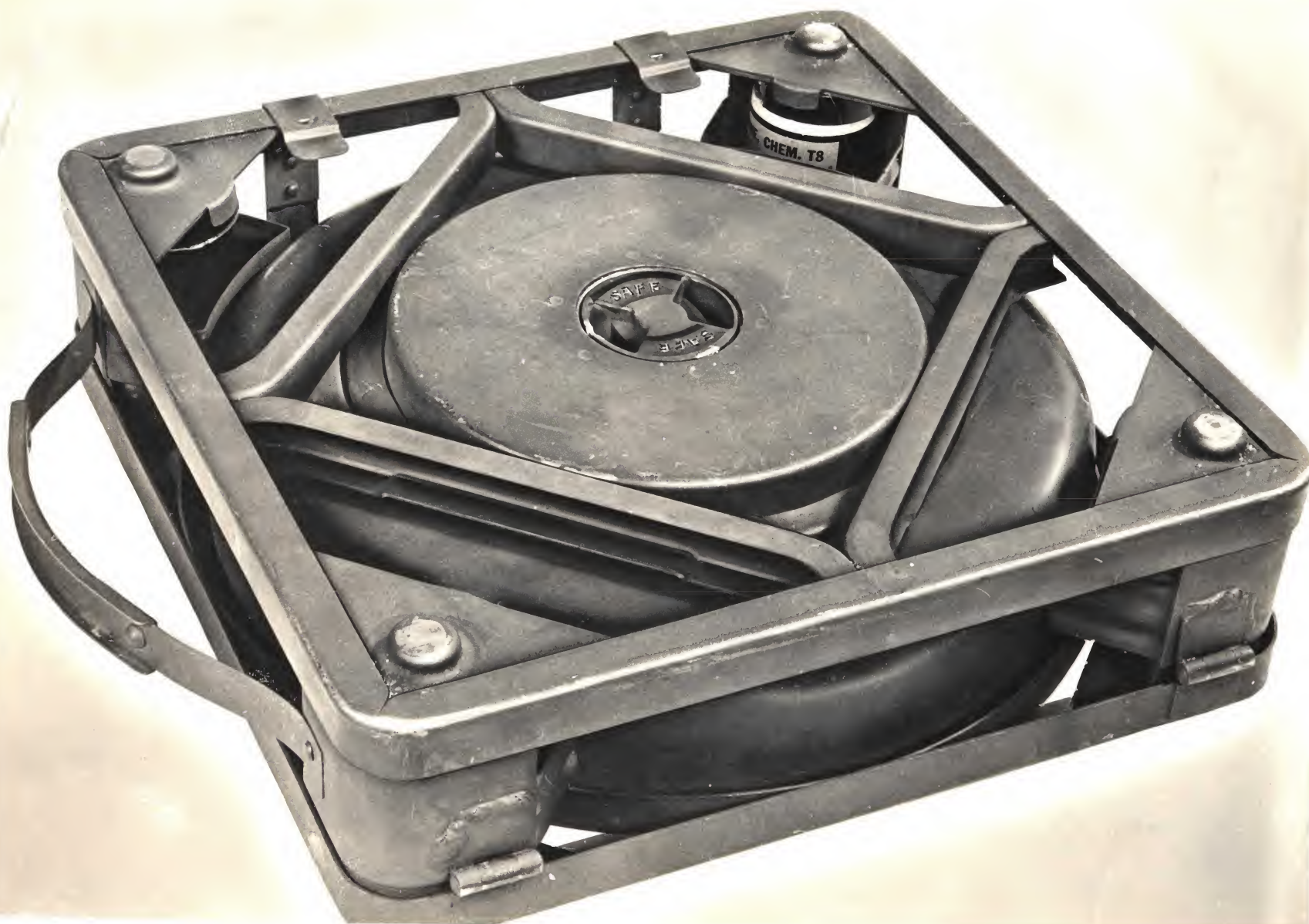
AVAILABILITY SCHEDULE, 1945

January	- 40,000	May	- 40,000
February	- 40,000	June	- 40,000
March	- 40,000	3rd Quarter	- 120,000
April	- 40,000	4th Quarter	- 93,000

TOTAL SCHEDULE - 1,371,000

MINE, AT, HE, HEAVY, M6

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CHARACTERISTICS

Weight.....20 3/4 lb.
 Weight, crated.....30 lb.
 Volume, crated.....0.41 cu. ft.
 Explosive charge.....12 1/3 lb. TNT
 Over-all height.....3 3/8 in.
 Over-all diameter.....13 1/4 in.
 Mine body material.....Steel
 Trip-wire connection.....Side activation well
 Anti-lifting connection....Bottom activation well
 Carrying handle.....Concealed when emplaced
 Location of bottom activation well.....Random
 Pressure-plate diameter.....7 1/2 in.
 Pressure-plate seal.....Moisture and air seal
 Operating load.....350 ±50 lb.
 Operating temperature.....-40° to +160°F.
 Blast resistance to adjacent mines...5 ft. centers
 when buried 2 in. or more 10 ft. centers
 above ground
 Blast resistance to 4 bangalores (37 lb. HE).....
 15 ft. when buried 2 in. or more
 Resistance to movement of pressure plate.....
 ...Belleville springs, trapped air, and fuze
 Movement required by pressure to contact fuze....
 ...3/16 ±1/16 in.
 Type of fuze.....Chemical



Mine, AT, HE, Heavy, M6

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 4,094,000

AVAILABILITY SCHEDULE, 1945

January	- 700,000	May	- 545,000
February	- 545,000	June	- 545,000
March	- 545,000	3rd Quarter-	1,635,000
April	- 545,000	4th Quarter-	946,000

TOTAL SCHEDULE - 10,100,000

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